



Attorney Docket No. 1051-1-020

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S) : Lawrence C. Smith et al EXAMINER : C. Crouch
SERIAL NO. : 10/019,375 ART UNIT : 1632
FILED : March 5, 2002
FOR : TELOPHASE ENUCLEATED OOCYTES FOR NUCLEAR TRANSFER

CERTIFICATE OF MAILING UNDER 37 CFR 1.8

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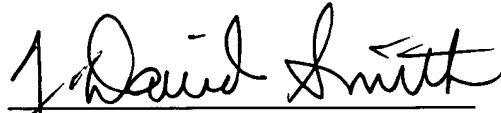
Dear Sir:

In accordance with Applicant's and Applicant's representatives' Duty of Disclosure under 37 CFR § 1.56, and pursuant to 37 CFR § 1.97 and MPEP 717.05(b), Applicant(s) submit herewith documentary information for consideration by the Examiner. Information herein cited is only set forth in fulfillment of Applicant's duty of candor in disclosing all information brought to his attention, and is not an admission that it can be used adversely. The publications forwarded herewith are listed on the enclosed Supplemental Form PTO-1449. Applicant(s) request that the Examiner, upon reviewing the enclosed materials, initial the enclosed form and return a copy thereof in accordance with the instructions on the form.

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Enclosed please find copies of the references listed on the attached Supplemental Form PTO-1449. Enclosed please find check in the amount of \$180.00 in payment of this filing. Should the Patent and Trademark Office determine additional fees are due, authorization is hereby given to charge Deposit Account No. 11-1153 for this filing.

Respectfully submitted,

A handwritten signature in black ink, reading "J. David Smith". The signature is written in a cursive style with a horizontal line underneath the name.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **1** of **3****Complete if Known**

Application Number	10/019,375
Filing Date	March 5, 2002
First Named Inventor	Lawrence C. Smith et al.
Art Unit	1632
Examiner Name	D. CROUCH
Attorney Docket Number	1050-1-020

U.S. PATENT DOCUMENTS

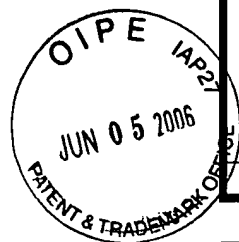
Examiner Initials*	No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US 6,580,017	06-17-2003	Echelard, Y. et al.	
		US 4,994,384	02-19-1991	Prather, R.A. et al.	
		US 5,057,420	10-15-1991	Massey, Joseph M.	
		US 5,843,754	12-01-1998	Susko-Parrish, J.L. et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	No. 1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		WO 97/07668 (PCT/GB96/02098)	03-06-1997	Campbell K. et al.		
		WO 00/25578	05-11-2000	Baguisi, A. et al.		
		WO 00/26357	05-11-2000	Echelard, Y. et al.		
		WO 98/30683 (PCT/US98/00002)	07-16-1998	Stich, S. et al.		
		WO 99/01163 (PCT/US98/12800)	06-24-1998	Stice, S. et al.		
		WO 99/01164 (PCT/US98/12806)	01-14-1999	Stice S. et al.		
		WO 98/07841 (PCT/US97/12919)	02-26-1998	Robl, J. et al.		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		SIMERLY C. et al., "Molecular Correlates of Primate Nuclear Transfer Failures", Science, 11 April 2003, vol. 300, 297	
		MITALIPOV, S. M. et al., "Rhesus Monkey Embryos Produced by Nuclear Transfer from Embryonic Blastomeres or Somatic Cells", Biology of Reproduction, 66, 2002, 1367-1373	
		POLEJAEVA I.A. et al., "Cloned pigs produced by nuclear transfer from adult somatic cells", Nature, 7 September 2000, vol. 4, 86-90	
		WESTHUSIN M. E. et al., "Cloning to reproduce desired genotypes", Theriogenology, 55, 2001, 35-49	
		MEIRELLES F. V., "Complete Replacement of the Mitochondrial Genotype in a Bos indicus calf Reconstructed by Nuclear Transfer to a Bos Taurus Oocyte", Genetics 158, May 2001, 351-356	
		FEHILLY, C. B., "Cytogenetic and blood group studies of sheep/goat chimaeras", J. Reprod. Fert. (1985) 74, 215-221	
		PENNISI et al., "Clone A Hard Act to Follow", Science, 9 June 2000, vol. 288, 1722-1727	
		CIBELLI et al., "Bovine Chimeric Offspring Produced by Transgenic Embryon Stem Cells Generated from Somatic Cell Nuclear Transfer Embryos", Theriogenology, 1 January 1998, vol. 49, no. 1, 236	



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Sheet	2	of	3	Attorney Docket Number	1050-1-020

		SCHNIEKE et al., "Human Factor IX Transgenic Sheep Produced by Transfer of Nuclear from Transfected Fetal Fibroblasts", Science, 19 December 1997, vol. 278, 2130-2133	
		In re Brown, 59 CCPA 1036, 459 I 2d 531, 173 USPQ 685 (1972)	
		In re Wands, 858 F. 2d 731, 8 USPQ2d 1400 (Fed. Cir. 1998)	
		In re Best, Bolton, and Shaw, 195 USPQ 430, 433 (CCPA 1977)	
		KEEFER, C.L. et al., (1996) "Isolation and maintenance of putative embryonic cells derived from Nigerian Dwarf goat embryos", Biol. Reprod. 54: abst. 462	
		ROBERTSON, E.J., 1987, "Embryo-derived stem cell lines", pp. 71-112, Teratocarcinomas and embryonic Stem cells: a practical approach, edited by E.J. Robertson. IRL Press, Oxford	
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		BAGUISI A. et al., 1999, "Production of gats by somatic cell nuclear transfer." Nature Biotechnology, 17: 456-461	
		SUN F.Z., et al., 1995, "Nuclear Transplantation in Mammalian Eggs en Embryos." Current Topics in Developmental Biology, 30: 147-176	
		WILMUT I. et al., 1997, "Viable offspring derived from fetal and adult mammalian cells.", Nature, 385: 810-813	

Examiner Signature		Date Considered	
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Sheet	3	of	3	Attorney Docket Number	1050-1-020

		NOUR M.S.M. et al., 1999, "Preparation of young preactivated oocytes with high enucleation efficiency for bovine nuclear transfer." Theriogenology, 51: 661-666	
		BORDIGNON V. et al., 1998, "Telophase Enucleation: An improved method to Prepare Recipient Cytoplasts for Use in Bovine Nuclear Transfer."	
		CIBELLI J.B., et al., 1998, "Cloned Transgenic Calves Produced from Nonquiescent Fetal Fibroblasts.", Science, 280: 1256-1258	
		BORDIGNON V. et al., 2002, "Bovine embryos reconstructed with somatic cells arrested at G0/G1 with metaphase oocytes or cycling with telophase host oocytes show similar developmental potential." Theriogenology, 57(1): 400	
		WELLS D.N. et al., 1999, "Production of Cloned Calves Following Nuclear Transfer with Cultured Adult Mural Granulosa Cells." Biology of Reproduction, 60: 996-1005	
		SMITH L.C., 1993, "Membrane and intracellular effects of ultraviolet irradiation with Hoechst 33342 on bovine secondary oocytes matured in vitro.", Journal of Reproduction and Fertility, 99: 39-44	

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